Q1. What are the IP address for utep.edu, engineering.utep.edu, and cs.utep.edu? Hint: nslookup

 $\rightarrow$ 

Kens-MBP:poking\_around\_assignment2 ken\$ nslookup utep.edu

Server: 192.168.1.254 Address: 192.168.1.254#53

Non-authoritative answer:

Name: utep.edu

Address: 129.108.0.145

Kens-MBP:poking\_around\_assignment2 ken\$ nslookup engineering.utep.edu

Server: 192.168.1.254 Address: 192.168.1.254#53

Non-authoritative answer:

engineering.utep.edu canonical name = engsrvweb00.utep.edu.

Name: engsrvweb00.utep.edu

Address: 129.108.156.178

Kens-MBP:poking\_around\_assignment2 ken\$ nslookup cs.utep.edu

Server: 192.168.1.254 Address: 192.168.1.254#53

Non-authoritative answer:

Name: cs.utep.edu

Address: 129.108.156.28

Q2. If a packet comes to me from 67.192.28.19 should I be suspicious? Why or why not? Hint: nslookup

 $\rightarrow$ 

Yes, because it is not a usual IP address, since mostly likely it starts with 3 digits numbers and this IP starting with 2 digits is ss[ocops. In addition, when running a command 'nslookup 67.192.28.19', the return is that server can't find. Thus, a packet coming from 67.192.28.19 should not be trusted.

Kens-MBP:~ ken\$ nslookup 67.192.28.19

Server: 192.168.1.254 Address: 192.168.1.254#53

\*\* server can't find 19.28.192.67.in-addr.arpa: NXDOMAIN

Q3. Which domain is older, nigelward.com or freudenthal.net? Hint: whois

 $\rightarrow$ 

Command: whois nigelward.com

Domain Name: NIGELWARD.COM

Registry Domain ID: 81957414\_DOMAIN\_COM-VRSN Registrar WHOIS Server: whois.tucows.com Registrar URL: http://www.tucows.com Updated Date: 2018-10-08T19:45:42Z Creation Date: 2002-01-04T00:40:38Z

Registry Expiry Date: 2024-01-04T00:40:38Z

Registrar: Tucows Domains Inc.

Registrar IANA ID: 69

Registrar Abuse Contact Email: Registrar Abuse Contact Phone:

Domain Status: ok <a href="https://icann.org/epp#ok">https://icann.org/epp#ok</a>

Name Server: DNS1.SERVERQUALITY.COM Name Server: DNS2.SERVERQUALITY.COM

DNSSEC: unsigned

URL of the ICANN Whois Inaccuracy Complaint Form: https://www.icann.org/wicf/

>> Last update of whois database: 2021-04-15T03:40:10Z <<<

Command: whois freudenthal.net

```
Domain Name: FREUDENTHAL.NET
Registry Domain ID: 7101939_DOMAIN_NET-VRSN
Registrar WHOIS Server: whois.google.com
Registrar URL: http://domains.google.com
Updated Date: 2020-06-08T19:13:21Z
Creation Date: 1999-06-08T16:47:11Z
Registry Expiry Date: 2021-06-08T16:47:48Z
Registrar: Google LLC
Registrar IANA ID: 895
Registrar Abuse Contact Email: registrar-abuse@google.com
Registrar Abuse Contact Phone: +1.8772376466
Domain Status: clientTransferProhibited https://icann.org/epp#clientTransferProhibited
Name Server: NS-CLOUD-B1.GOOGLEDOMAINS.COM
Name Server: NS-CLOUD-B2.GOOGLEDOMAINS.COM
Name Server: NS-CLOUD-B3.GOOGLEDOMAINS.COM
Name Server: NS-CLOUD-B4.GOOGLEDOMAINS.COM
DNSSEC: unsigned
URL of the ICANN Whois Inaccuracy Complaint Form: https://www.icann.org/wicf/
Last update of whois database: 2021-04-15T03:45:28Z <<<
```

Comparing the date of creation between nigelward.com and fueudenthal.net, noted that freudenthal.net is older.

Q4. Who runs networking at UTEP? Hint: whois  $\rightarrow$ 

```
Administrative Contact:
       Jose Huerta
       University of Texas at El Paso
       UWLL-IT
       500 W. University Ave
       El Paso, TX 79968
       US
       +1.9157475256
       utepnet@utep.edu
Technical Contact:
       Thomas Mikelson
       University of Texas at El Paso
       UWLL-IT
       500 W. University
       El Paso, TX 79968
       US
       +1.9157475256
       utepnet@utep.edu
```

Q5. How long can you confidently expect UTEP to remain at 129.108.0.145? Hint: nslookup - type=soa

 $\rightarrow$ 

Command: nslookup -type=soa utep.edu

```
Kens-MBP:~ ken$ nslookup -type=soa utep.edu
Server: 192.168.1.254
Address: 192.168.1.254#53

Non-authoritative answer:
utep.edu
    origin = dns4.utep.edu
    mail addr = utepnet.utep.edu
    serial = 799
    refresh = 3600
    retry = 1800
    expire = 86400
    minimum = 30400

Authoritative answers can be found from:
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Q6. The argument to ping can be either a domain name or an IP address. For which of these does ping need to do a DNS lookup?

 $\rightarrow$ 

In both cases, since if a regular domain is given, it will return IP address. If IP address is given, retular domain will be returned. Thus, in eithercase, it will do "forward" dns lookup, and reverse dns lookup.